

1. [-/1 Points]

DETAILS

SCALCET9 3.3.007.

Differentiate.

$$y = \sec(\theta) \tan(\theta)$$

 $y' =$

2. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.009.

Find the derivative of the function.

$$f(t) = t \cos(t) + t^2 \sin(t)$$

 $f'(t) =$ **Need Help?****Watch It**

3. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.024.

Find an equation of the tangent line to the graph of the given function at the specified point.

$$f(x) = 5e^x \cos(x), \quad (0, 5)$$

 $y =$

4. [-/2 Points]

DETAILS

SCALCET9 3.XP.3.027.

Let $g(x) = x \sin(x)$. Find $g'(x)$ and $g''(x)$.

$$g'(x) =$$

$$g''(x) =$$

Need Help?**Watch It**

5. [-/1 Points]

DETAILS

SCALCET9 3.3.045.

Find the limit.

$$\lim_{x \rightarrow 0} \frac{\sin(7x)}{3x}$$

Need Help?**Watch It**

6. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.018.

Find the limit.

$$\lim_{t \rightarrow 0} \frac{\tan(12t)}{\sin(3t)}$$

Need Help?

[Watch It](#)

7. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.011.

Differentiate.

$$y = \frac{3 - \sec(x)}{\tan(x)}$$

 $y' =$

8. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.013.

Find the limit.

$$\lim_{x \rightarrow 0} \frac{\sin(8x)}{\sin(9x)}$$

9. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.003.MI.

Differentiate the following function.

$$y = 5 \csc(x) + 4 \cos(x)$$

 $y' =$ **Need Help?****Master It**

10. [-/1 Points]

DETAILS

SCALCET9 3.XP.3.004.

Differentiate the following function.

$$g(t) = 9 \sec(t) + 5 \tan(t)$$

 $g'(t) =$

11. [-/1 Points]

DETAILS

SCALCET9 3.3.001.

Differentiate.

$$f(x) = 8 \sin(x) - 3 \cos(x)$$

 $f'(x) =$

12. [-/1 Points]

DETAILS

SCALCET9 3.3.004.

Differentiate.

$$y = 7 \sec(x) - \csc(x)$$

 $y' =$

13. [-/1 Points]

DETAILS

SCALCET9 3.3.011.

Differentiate.

$$H(t) = \cos^2(t)$$

 $H'(t) =$